

Cal/Ecotox

Exposure Factors for Pacific Treefrog (*Hyla regilla*)*

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| Endpoint Type | Endpoint Value | Error | Range | Units | Sex | Life Stage | Location | Note | Reference |
|-----------------------------------|---|----------|---------------|------------------|------|------------|------------------------|------|-----------|
| Age at Sexual Maturity | 8 | | | mo | NR | Adult | OR | a | 1 |
| Body Weight - Mean | 2.27 | | | g | B | Adult | CANADA; CA; MEXICO; OR | b | 2 |
| Body Weight - Mean | | | 132-152 | mg | B | Juvenile | CA | c | 3 |
| Body Weight - Mean | | | 251 - 294 | mg | B | Juvenile | CA | d | 3 |
| Clutch or Litter Size | 267.7 | 128.7 SD | 62 - 633 | eggs/clutch | F | Adult | CA | e | 4 |
| Clutches or Litters per year | | | 1 - 5 | clutches/yr | F | Adult | CA | f | 4 |
| Dietary Composition | Collembola (1.4%); Lepidoptera larvae (4.1%); Hymenoptera (4.1%); Diptera adult (8.1%); Diptera larvae (1.4%); Coleoptera adults (14.9%); Coleoptera larvae (4.1%); Plecoptera (2.7%); Hemiptera (6.8%); Aranea (6.8%); Acarina (1.4%) | | | % | B | NR | Humboldt; CA | g | 5 |
| Dietary Composition | Collembola (8.2%); Lepidoptera larvae (14.8%); Hymenoptera (6.6%); Diptera adult (14.5%); Diptera larvae (8.2%); Coleoptera adults (32.8%); Coleoptera larvae (19.7%); Aranea (9.9%); Acarina (3.3%); Isopoda (9.9%); Chilopoda (4.9%); Pulmonata (11.3%); Megadrili (4.9%) | | | % | NR | NR | Lake; CA | h | 5 |
| Growth Rate | | | 4.20 - 10.80 | mm/yr | NR | Adult | OR | i | 1 |
| Growth Rate | 2 | | | mm/wk | NR | Juvenile | OR | j | 1 |
| Metabolic Rate | | | 0.304 - 0.524 | mm ³ | B | NR | Lab | k | 2 |
| Population Density | 16.25 | 7 SD | 0 - 350 | #/m ² | B | Tadpole | Mendocino; CA | l | 6 |
| Survival/ Mortality | 11 | | | % | NR | Adult | OR | m | 1 |
| Survival/ Mortality | 13.3 | | | % | NR | Juvenile | OR | n | 1 |
| Time of Fledging or Metamorphosis | July - Sept. | | | | NR | Juvenile | ID | o | 7 |
| Time of Hatching or Parturition | see citation | | | | B | Embryo | Los Angeles; CA | p | 8 |
| Time of Hatching or Parturition | May | | | | NR | Hatchling | ID | q | 7 |
| Time of Mating/ Laying | Jan. - June | | | | B | Adult | CA | r | 4 |
| Time of Mating/ Laying | spring - summer | | | | B | Adult | Mendocino; CA | s | 6 |
| Time of Mating/ Laying | Feb. - June | | | | B | Adult | Los Angeles; CA | t | 8 |
| Time of Mating/ Laying | May - Aug. | | | | B; F | Adult | CA | u | 3 |
| Time of Mating/ Laying | Apr. - May | | | | F | Adult | ID | v | 7 |
| Time of Torpor or Hibernation | July - Oct. | | | | NR | NR | Los Angeles; CA | w | 9 |

Notes

a N=NR; Washington County

b N=90

c range of average weight at metamorphosis, tadpoles fed seston, detritus or blue green algae in field enclosures; N=7-12/group; South Fork Eel River, Branscomb [lat., 39°04' N; long., 123°03'W]; see citation for figure of mass @ metamorphosis to time @ metamorphosis relationship

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- d range of average weight at metamorphosis, tadpoles fed green algae in field enclosures; N=16-24/group; South Fork Eel River, Branscomb [lat., 39°44' N; long., 123°39'W]; see citation for figure of mass @ metamorphosis to time @ metamorphosis relationship
- e N=40; San Diego
- f estimated by number of times a female was found in amplexus with palpable eggs; N=NR; San Diego
- g % frogs in which each item occurred in stomach contents; N=74; Jan.; Eureka; average body length, 37.0 mm
- h % frogs in which each item occurred in stomach contents; N=61; Feb.; Lakeport (elev., 1300 ft); average body length, 30.6 mm
- i range of average increase in snout-vent length for 7 size classes (snout vent length; 28.0 - 35.9 mm); N=13 - 52; Washington County
- j increase in snout-vent length; N=30; June - Aug.; Washington County
- k range of mean oxygen consumption rates measured at 20C; N=7/location and sex; captured in San Diego, Julian and Willows, CA
- l N=27 quadrats; June; Angelo Coast Range Reserve [lat., 39°44'N; long., 123°39'W]
- m % surviving one year; N=373; Washington County
- n % surviving their first year; N=15; Washington County
- o N=NR; Moscow, Latah County (elev., 850m)
- p figure of mean duration from fertilization to hatching in field enclosures; N=8 replicates of 150 (frogs) or 16-12 (newts) embryos; Santa Monica Mountains
- q N=NR; Moscow, Latah County (elev., 850m)
- r time of breeding; N=85 pairs in amplexus; San Diego
- s breeding; N=NR; Angelo Coast Range Reserve [lat., 39°44'N; long., 123°39'W]
- t time of breeding; N=NR; Santa Monica Mountains
- u time of breeding; N=NR; South Fork Eel River, Branscomb [lat., 39°44' N; long., 123°39'W]
- v time of laying; N=NR; Moscow, Latah County (elev., 850m)
- w N=NR; Gorman (elev., 4000 ft) and Palmdale (elev., 2000 ft)

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